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NEWS 7	DEC 21	IPC search and display fields enhanced in CA/CAplus with the IPC reform
NEWS 8	DEC 23	New IPC8 SEARCH, DISPLAY, and SELECT fields in USPATFULL/ USPAT2
NEWS 9	JAN 13	IPC 8 searching in IFIPAT, IFIUDB, and IFICDB
NEWS 10	JAN 13	New IPC 8 SEARCH, DISPLAY, and SELECT enhancements added to INPADOC
NEWS 11	JAN 17	Pre-1988 INPI data added to MARPAT
NEWS 12	JAN 17	IPC 8 in the WPI family of databases including WPIFV

NEWS EXPRESS JANUARY 03 CURRENT VERSION FOR WINDOWS IS V8.01,
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http://download.cas.org/express/v8.0-Discover/

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FILE 'HOME' ENTERED AT 14:13:18 ON 20 JAN 2006

=> file reg
COST IN U.S. DOLLARS SINCE FILE ENTRY TOTAL SESSION

10501115.trn

FULL ESTIMATED COST 0.21 0.21

FILE 'REGISTRY' ENTERED AT 14:13:25 ON 20 JAN 2006

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 18 JAN 2006 HIGHEST RN 872163-75-2
DICTIONARY FILE UPDATES: 18 JAN 2006 HIGHEST RN 872163-75-2

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TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2005

Please note that search-term pricing does apply when conducting SmartSELECT searches.

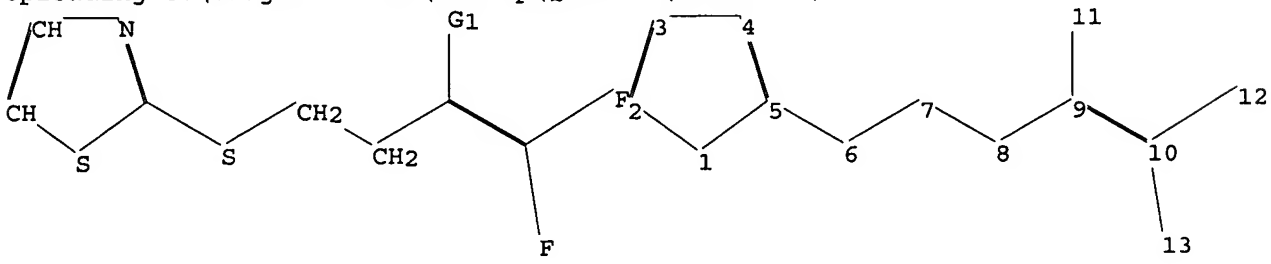
****
* *
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added, *
* effective March 20, 2005. A new display format, IDERL, is now *
* available and contains the CA role and document type information. *
* *
****

Structure search iteration limits have been increased. See HELP SLIMITS for details.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

http://www.cas.org/ONLINE/UG/regprops.html

=>
Uploading C:\Program Files\Stnexp\Queries\10501115\Struc 2.str



chain nodes :
6 7 8 9 10 11 12 13
ring nodes :
1 2 3 4 5
chain bonds :
5-6 6-7 7-8 8-9 9-10 9-11 10-12 10-13
ring bonds :
1-2 1-5 2-3 3-4 4-5

10501115.trn

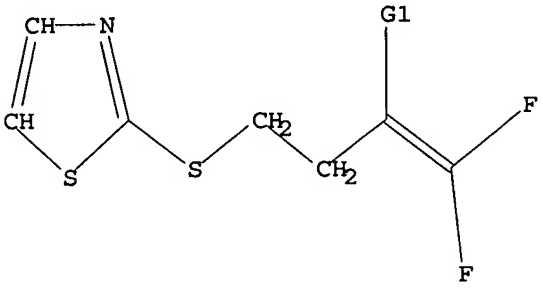
exact/norm bonds :
1-2 1-5 2-3 3-4 4-5 5-6 9-11
exact bonds :
6-7 7-8 8-9 9-10 10-12 10-13

G1:H,F

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:CLASS 7:CLASS 8:CLASS 9:CLASS
10:CLASS 11:CLASS 12:CLASS 13:CLASS

L1 STRUCTURE UPLOADED

=> d
L1 HAS NO ANSWERS
L1 STR



G1 H,F

Structure attributes must be viewed using STN Express query preparation.

=> l1
SAMPLE SEARCH INITIATED 14:13:44 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 28 TO ITERATE

100.0% PROCESSED 28 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 243 TO 877
PROJECTED ANSWERS: 0 TO 0

L2 0 SEA SSS SAM L1

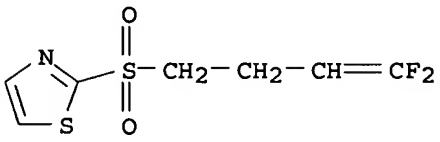
=> l1 full
FULL SEARCH INITIATED 14:13:48 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 598 TO ITERATE

100.0% PROCESSED 598 ITERATIONS 4 ANSWERS
SEARCH TIME: 00.00.01

L3 4 SEA SSS FUL L1

=> d scan

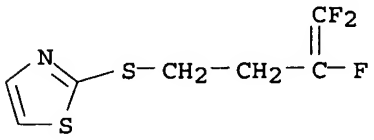
L3 4 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN Thiazole, 2-[(4,4-difluoro-3-butenyl)sulfonyl]- (9CI)
MF C7 H7 F2 N O2 S2



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

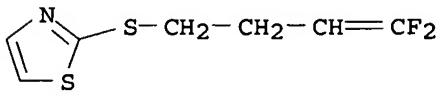
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):3

L3 4 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN Thiazole, 2-[(3,4,4-trifluoro-3-butenyl)thio]- (9CI)
MF C7 H6 F3 N S2



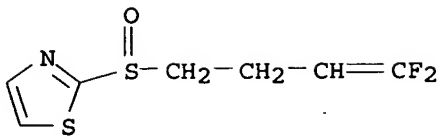
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 4 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN Thiazole, 2-[(4,4-difluoro-3-butenyl)thio]- (9CI)
MF C7 H7 F2 N S2



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 4 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN Thiazole, 2-[(4,4-difluoro-3-butenyl)sulfinyl]- (9CI)
MF C7 H7 F2 N O S2



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

ALL ANSWERS HAVE BEEN SCANNED

=> d rn 1-4

L3 ANSWER 1 OF 4 REGISTRY COPYRIGHT 2006 ACS on STN
RN 172933-36-7 REGISTRY

L3 ANSWER 2 OF 4 REGISTRY COPYRIGHT 2006 ACS on STN
RN 172933-35-6 REGISTRY

L3 ANSWER 3 OF 4 REGISTRY COPYRIGHT 2006 ACS on STN
RN 172933-05-0 REGISTRY

L3 ANSWER 4 OF 4 REGISTRY COPYRIGHT 2006 ACS on STN
RN 109993-23-9 REGISTRY

=> d hitstr 1-4
'HITSTR' IS NOT A VALID FORMAT FOR FILE 'REGISTRY'

The following are valid formats:

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REG - RN
SAM - Index Name, MF, and structure - no RN
FIDE - All substance data, except sequence data
IDE - FIDE, but only 50 names
SQIDE - IDE, plus sequence data
SQIDE3 - Same as SQIDE, but 3-letter amino acid codes are used
SQD - Protein sequence data, includes RN
SQD3 - Same as SQD, but 3-letter amino acid codes are used
SQN - Protein sequence name information, includes RN

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PROP - EPROP and CALC

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APPS -- Application and Priority Information
BIB -- CA Accession Number, plus Bibliographic Data

CAN -- CA Accession Number
CBIB -- CA Accession Number, plus Bibliographic Data (compressed)
IND -- Index Data
IPC -- International Patent Classification
PATS -- PI, SO
STD -- BIB, IPC, and NCL

IABS -- ABS, indented, with text labels
IBIB -- BIB, indented, with text labels
ISTD -- STD format, indented

OBIB -------- AN, plus Bibliographic Data (original)
OIBIB ------- OBIB, indented with text labels

SBIB -------- BIB, no citations
SIBIB ------- IBIB, no citations

The ALL format gives FIDE BIB ABS IND RE, plus sequence data when it is available.
The MAX format is the same as ALL.
The IALL format is the same as ALL with BIB ABS and IND indented, with text labels.

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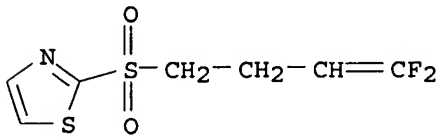
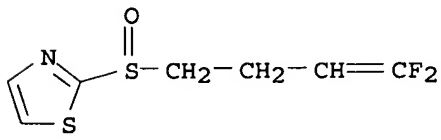
HELP DFIELDS -- To see a complete list of individual display fields.
HELP FORMATS -- To see detailed descriptions of the predefined formats.
ENTER DISPLAY FORMAT (IDE):sam

L3 ANSWER 1 OF 4 REGISTRY COPYRIGHT 2006 ACS on STN
IN Thiazole, 2-[(4,4-difluoro-3-butenyl)sulfonyl]- (9CI)
MF C7 H7 F2 N O2 S2



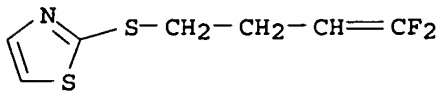
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 ANSWER 2 OF 4 REGISTRY COPYRIGHT 2006 ACS on STN
IN Thiazole, 2-[(4,4-difluoro-3-butenyl)sulfinyl]- (9CI)
MF C7 H7 F2 N O S2



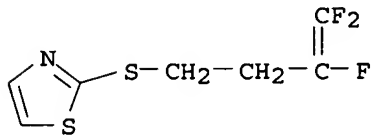
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 ANSWER 3 OF 4 REGISTRY COPYRIGHT 2006 ACS on STN
IN Thiazole, 2-[(4,4-difluoro-3-butenyl)thio]- (9CI)
MF C7 H7 F2 N S2



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 ANSWER 4 OF 4 REGISTRY COPYRIGHT 2006 ACS on STN
IN Thiazole, 2-[(3,4,4-trifluoro-3-butenyl)thio]- (9CI)
MF C7 H6 F3 N S2



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	173.30	173.51

FILE 'CAPLUS' ENTERED AT 14:16:22 ON 20 JAN 2006
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FILE COVERS 1907 - 20 Jan 2006 VOL 144 ISS 5
FILE LAST UPDATED: 19 Jan 2006 (20060119/ED)

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=> 172933-05-0
REGISTRY INITIATED
Substance data SEARCH and crossover from CAS REGISTRY in progress...
Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.

L5 1 L4

=> l5
L6 1 L4

=> d ibib abs hitstr

L6 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1995:994834 CAPLUS
DOCUMENT NUMBER: 124:117350
TITLE: Preparation of (4,4-difluorobut-3-enylthio)-substituted heterocyclic or carbocyclic ring compounds having pesticidal activity
INVENTOR(S): Turnbull, Michael Drysdale; Bansal, Harjinder Singh; Smith, Alison Mary; Salmon, Roger; Fitzjohn, Steven; Godrey, Christopher Richard Ayles; Hotson, Matthew Brian; Sillars, Nan Catherine; Dowling, Alan John
PATENT ASSIGNEE(S): Zeneca Ltd., UK
SOURCE: PCT Int. Appl., 194 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9524403	A1	19950914	WO 1995-GB400	19950227
W: AM, AU, BB, BG, BR, BY, CA, CN, CZ, EE, FI, GE, HU, JP, KE, KG, KP, KR, KZ, LK, LR, LT, LV, MD, MG, MN, MW, MX, NO, NZ, PL, RO, RU, SD, SG, SI, SK, TJ, TT, UA, US, UZ, VN				
RW: KE, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
CA 2182520	AA	19950914	CA 1995-2182520	19950227
AU 9518164	A1	19950925	AU 1995-18164	19950227
AU 685242	B2	19980115		
EP 749433	A1	19961227	EP 1995-909854	19950227
EP 749433	B1	20030507		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
CN 1143958	A	19970226	CN 1995-192029	19950227
HU 74902	A2	19970228	HU 1996-2417	19950227
HU 215211	B	19981028		
BR 9507042	A	19970909	BR 1995-7042	19950227
JP 09510197	T2	19971014	JP 1995-523286	19950227
CZ 285605	B6	19990915	CZ 1996-2632	19950227
RU 2151147	C1	20000620	RU 1996-120148	19950227

RO 116399	B1	20010130	RO 1996-1788		19950227
SK 281491	B6	20010409	SK 1996-1148		19950227
AT 239714	E	20030515	AT 1995-909854		19950227
PT 749433	T	20030829	PT 1995-909854		19950227
ES 2199240	T3	20040216	ES 1995-909854		19950227
US 5705516	A	19980106	US 1995-400912		19950308
US 5912243	A	19990615	US 1996-702623		19960828
FI 9603539	A	19960909	FI 1996-3539		19960909
NO 9603776	A	19961107	NO 1996-3776		19960909
LV 11686	B	19970620	LV 1996-363		19960910
US 5952359	A	19990914	US 1997-887858		19970703
PRIORITY APPLN. INFO.:			GB 1994-4716	A	19940310
			GB 1994-4717	A	19940310
			GB 1994-4718	A	19940310
			GB 1994-4719	A	19940310
			GB 1994-4720	A	19940310
			GB 1994-4721	A	19940310
			GB 1995-521	A	19950111
			WO 1995-GB400	W	19950227
			US 1995-400912	A3	19950308

OTHER SOURCE(S): MARPAT 124:117350
GI

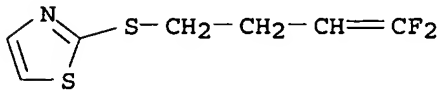
* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB The title compds. represented by the general formula RS(O)nCH2CH2CH:CF2 [n = 0,1,2; R is a group of formulas Q - Q13 (X = O, S), etc., wherein the S(O)mCH2CH2CH:CF2 group is at least one of R1 (when attached to a carbon atom), R2, R3, R4, R5 or R6; e.g. when R1 is attached to a carbon atom, R2, R3, R4, R5 and R6 are each independently H, optionally substituted alkyl, optionally substituted alkenyl, alkynyl, cycloalkyl, alkylcycloalkyl, alkoxy, alkenyloxy, alkynyloxy, hydroxyalkyl, alkoxyalkyl, optionally substituted aryl, optionally substituted arylalkyl, optionally substituted heteroaryl, optionally substituted heteroarylalkyl, optionally substituted aryloxy, optionally substituted arylalkoxy, optionally substituted aryloxyalkyl, optionally substituted heteroaryloxy, optionally substituted heteroarylalkoxy, optionally substituted heteroaryloxyalkyl, haloalkyl, haloalkenyl, haloalkynyl, haloalkoxy, haloalkenyloxy, haloalkynyloxy, halo, HO, cyano, NO2, NR7R8, NR7COR8, NR7CSR8, NR7SO2R8, N(SO2R7)(SO2R8), COR7, CONR7R8, alkyl-CONR7R8, CR7NR8, CO2R7, O2CR7, SR7, SOR7, SO2R7, alkyl-SR7, alkyl-SOR7, alkyl-SO2R7, OSO2R7, SO2NR7R8, CSNR7R9, SiR7R8R9, OCH2CO2R7, OCH2CH2CO2R7, CONR7SO2R8, alkyl-CONR7SO2R8, NHCONR7R8, NHCSNR7R8, or an adjacent pair of R1 - R6 when taken together form a fused 5- or 6-membered carbocyclic or heterocyclic ring] are prepared Thus, a solution of 4,4-difluorobut-3-enyl thioacetate in 50% aqueous NaOH was stirred vigorously for 30 min, followed by successively adding Et 5-chloro-4-methylisoxazole in CH2Cl2 and Bu4NBr, and the reaction mixture was stirred at the ambient temperature for 3 h to give Et 5-(4,4-difluorobut-3-enylthio)-3-methylisoxazole-4-carboxylate. The latter compound was saponified with a mixture of 2 M NaOH and isopropanol and acidified with 2 M HCl to give the acid 5-(4,4-difluorobut-3-enylthio)-3-methylisoxazole-4-carboxylic acid, which was treated with Et chloroformate and Et3N in CH2Cl2 at 0° and then with NH3(g) to give the amide 5-(4,4-difluorobut-3-enylthio)-3-methylisoxazole-4-carboxamide (I). I controlled 100% Tetranychus urticae (spider mite) and Myzus persicae (green peach aphid) upon contract at 100 ppm and 100% Meloidogyne

incognita (root knot nematode) at 2 ppm as a drench solution to 2 wk old cucumber plants.

IT **172933-05-0P**
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of (difluorobutenylthio)-substituted heterocyclic or carbocyclic ring compds. as pesticides)

RN 172933-05-0 CAPLUS
CN Thiazole, 2-[(4,4-difluoro-3-butenyl)thio]- (9CI) (CA INDEX NAME)



=> 109993-23-9
REGISTRY INITIATED
Substance data SEARCH and crossover from CAS REGISTRY in progress...
Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.

L8 4 L7

=> d ibib abs hitstr

L8 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2003:570971 CAPLUS
DOCUMENT NUMBER: 139:133556
TITLE: Method for producing halogenated 2-(3-butenylthio)-1,3-thiazoles
INVENTOR(S): Straub, Alexander
PATENT ASSIGNEE(S): Bayer CropScience AG, Germany
SOURCE: PCT Int. Appl., 31 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

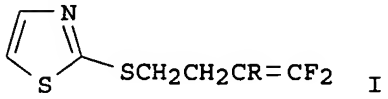
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003059896	A1	20030724	WO 2003-EP300028	20030103

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF,

	BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
DE 10201238		A1	20030724	DE 2002-10201238	20020115
EP 1467980		A1	20041020	EP 2003-708046	20030103
EP 1467980		B1	20050727		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,				
	IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
US 2005124816		A1	20050609	US 2003-501115	20030103
JP 2005519896		T2	20050707	JP 2003-560000	20030103
AT 300527		E	20050815	AT 2003-708046	20030103
PRIORITY APPLN. INFO.:				DE 2002-10201238 A	20020115
				WO 2003-EP28 W	20030103

OTHER SOURCE(S): CASREACT 139:133556; MARPAT 139:133556

GI



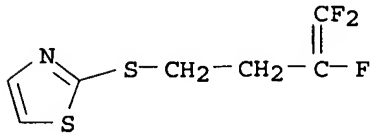
I

AB Title compds. (I; R = H, F), were prepared in following steps (1) preparing F2C:CRCH2CH2SCN (II; R as above) by reacting F2C:CRCH2CH2X (R as above, X = Br, Cl, mesylate, tosylate) with M+SCN- (M+ = H, NH+, tetraalkylammonium, alkaline (earth) ion) in the presence of a reaction aid and a solvent, (2) treatment of II with H2S or salts thereof in the presence of a reaction aid and a solvent to give F2C:CRCH2CH2S(:NH)SH (III; R as above), and (3) reacting III with MeCHO, ClCH2CHO, or chloroacetaldehyde dialkylacetal in a solvent to give I. Thus, NH4NCS in EtOH was stirred with 4-bromo-1,1,2-trifluoro-1-butene for 2 h at room temperature to give 93.3% 3,4,4-trifluoro-3-butenylthiocyanate. The latter and Et3N in t-BuOMe were treated with H2S followed by stirring over night at room temperature to give 88.5% 3,4,4-trifluoro-3-butenyldithiocarbamate which was treated with concentrated HCl and 45% ClCH2CHO in dioxane followed by boiling for 4 h whereby ClCH2CHO was again added after 2 h to give 94.4% 2-[(3,4,4-trifluoro-3-butenyl)thio]-1,3-thiazole. I are important intermediates for producing pesticides.

IT **109993-23-9P**
RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)
(method for producing halogenated (butenylthio)thiazoles)

RN 109993-23-9 CAPLUS

CN Thiazole, 2-[(3,4,4-trifluoro-3-butenyl)thio]- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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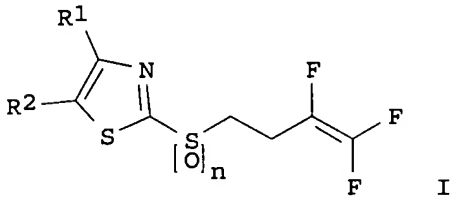
L8 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2003:282551 CAPLUS
DOCUMENT NUMBER: 138:304270
TITLE: Preparation of nematocidal trifluorobutenylthio(or sulfinyl/sulfonyl) thiazoles
INVENTOR(S): Watanabe, Yukiyoshi; Ishikawa, Koichi; Otsu, Yuich; Shibuya, Katsuhiko
PATENT ASSIGNEE(S): Bayer CropScience AG, Germany
SOURCE: PCT Int. Appl., 42 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003029231	A1	20030410	WO 2002-EP10351	20020916
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
JP 2003113168	A2	20030418	JP 2001-301316	20010928

PRIORITY APPLN. INFO.: JP 2001-301316 A 20010928
OTHER SOURCE(S): MARPAT 138:304270
GI

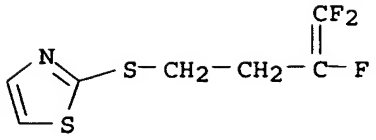


I

AB The title compds. [I; R1 = H, halo, alkyl, haloalkyl, cycloalkyl, alkoxycarbonylmethyl; R2 = H, halo, alkyl, alkoxyalkyl, alkylthioalkyl, carboxy, alkylaminocarbonyl, cycloalkylaminocarbonyl, dialkylaminocarbonyl, alkoxycarbonyl; n = 0-2; with the proviso that R1 and R2 do not represent hydrogen at the same time, and in case R1 represents hydrogen, then R2 does not represent halogen], useful as nematocides, were prepared Thus, reacting 5-ethoxycarbonyl-2-mercapto-4-methylthiazole with 4-bromo-1,1,2-trifluoro-1-butene in the presence of K2CO3 in MeCN afforded 65% I [R1 = Me; R2 = CO2Et; n = 0]. Seven of the prepared compds. I showed more than 90% controlling effect at 10 ppm in test for Meloidogyne spp. (soil pot test).

IT **109993-23-9**
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of nematicidal trifluorobutenylthio(or sulfinyl/sulfonyl) thiazoles)

RN 109993-23-9 CAPLUS
CN Thiazole, 2-[(3,4,4-trifluoro-3-butenyl)thio]- (9CI) (CA INDEX NAME)

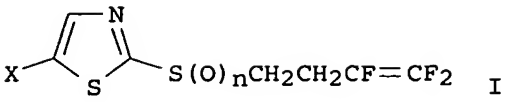


REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2001:31482 CAPLUS
DOCUMENT NUMBER: 134:100860
TITLE: Nematocidal trifluorobutenes
INVENTOR(S): Watanabe, Yukiyoshi; Ishikawa, Koichi; Otsu, Yuichi; Shibuya, Katsuhiko; Abe, Takahisa
PATENT ASSIGNEE(S): Nihon Bayer Agrochem K.K., Japan
SOURCE: PCT Int. Appl., 27 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
WO 2001002378	A1	20010111	WO 2000-IB868		20000628
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM					
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG					
JP 2001019685	A2	20010123	JP 1999-191638		19990706
CA 2378148	AA	20010111	CA 2000-2378148		20000628
BR 2000012243	A	20020326	BR 2000-12243		20000628
EP 1200418	A1	20020502	EP 2000-937136		20000628
EP 1200418	B1	20040331			
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL					
TR 200200068	T2	20020521	TR 2002-200200068		20000628
JP 2003503485	T2	20030128	JP 2001-507816		20000628
AT 263157	E	20040415	AT 2000-937136		20000628
ES 2215671	T3	20041016	ES 2000-937136		20000628
ZA 2001009995	A	20020827	ZA 2001-9995		20011205
US 6734198	B1	20040511	US 2002-30361		20020305
HK 1046403	A1	20050422	HK 2002-107654		20021022
PRIORITY APPLN. INFO.:			JP 1999-191638	A	19990706
			WO 2000-IB868	W	20000628

OTHER SOURCE(S): MARPAT 134:100860
GI



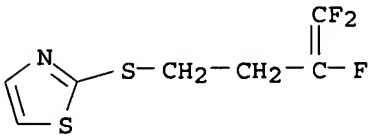
I

AB Title compds. I (n = 0, 1, 2; X = halo) were prepared Thus, 4.8 g N-chlorosuccinimide was added to a solution of 6.75 g 2-[(3,4,4-trifluoro-3-butenyl)thio]thiazole in 60 mL CCl4, and the mixture was refluxed for 18 h to give I (n = 0, X = Cl). Oxidation of this product with m-chloroperoxybenzoic acid and with 31% H2O2 gave I (n = 1, X = Cl) and I (n = 2, X = Cl), resp. I (n = 0, 1, 2; X = Cl) showed 100-71% controlling effect against Meloidogyne incognita on tomatoes.

IT **109993-23-9P**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(preparation and nematicidal activity of)

RN 109993-23-9 CAPLUS

CN Thiazole, 2-[(3,4,4-trifluoro-3-butenyl)thio]- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1987:496721 CAPLUS

DOCUMENT NUMBER: 107:96721

TITLE: Pesticidal (thiadiazolylthio)trifluorobutene analogs

INVENTOR(S): Cullen, Thomas Gerard; Martinez, Anthony Joseph

PATENT ASSIGNEE(S): FMC Corp., USA

SOURCE: PCT Int. Appl., 102 pp.
CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 8607590	A1	19861231	WO 1986-US1284	19860612
W: AU, BR, DK, HU, JP, KR				
RW: CF, CG, CH, CM, DE, FR, GA, GB, IT, ML, MR, NL, SN, TD, TG				
AU 8661229	A1	19870113	AU 1986-61229	19860612
AU 601656	B2	19900913		
EP 228447	A1	19870715	EP 1986-904515	19860612
R: CH, DE, FR, GB, IT, LI, NL				
HU 42424	A2	19870728	HU 1986-3254	19860612
HU 204022	B	19911128		
BR 8606746	A	19871013	BR 1986-6746	19860612
JP 63500037	T2	19880107	JP 1986-503571	19860612
CA 1277668	A1	19901211	CA 1986-511879	19860618

CN 86104207	A	19870401	CN 1986-104207		19860619
ZA 8604637	A	19880224	ZA 1986-4637		19860620
DK 8700843	A	19870219	DK 1987-843		19870219
US 4952580	A	19900828	US 1988-270903		19881109
PRIORITY APPLN. INFO.:			US 1985-746911	A	19850620
			US 1985-747142	A	19850620
			US 1986-870055	B1	19860603
			WO 1986-US1284	A	19860612
			US 1988-161575	B2	19880229

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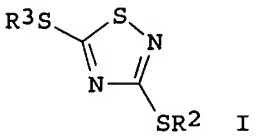


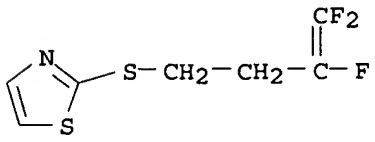
I

AB F2C:CF(CH2)nZR [n = 1-4; Z = S, O, N, CH2; when Z = S, R = thiazolyl, F2C:CFCH2CH2O2CCH2, or (un)substituted thienyl, thianaphthyl, thiazolinyl, thiadiazolyl, and oxadiazolyl; when Z = O, R = COR1 where R1 = perfluoroalkyl, dihydrothiazolylthiomethyl, or (un)substituted Ph, thienyl, furanyl, pyrrolyl; when Z = N, ZR = isothiocyanato, succinimido, or saccharin group; when Z = CH2, R = OH], useful as pesticides, were prepared Refluxing a mixture of 0.08 mol NCN:C(S-K+)2 and 0.08 mol S in MeOH gave 18.1 g thiadiazole derivative I (R2 = R3 = K), which was alkylated by BrCH2CH2CF:CF2 in MeCOEt to give I (R2 = R3 = CH2CH2CF:CF2), which at 5 ppm completely controlled the root-knot nematode.

IT **109993-23-9P**
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of, as pesticide)

RN 109993-23-9 CAPLUS

CN Thiazole, 2-[(3,4,4-trifluoro-3-butenyl)thio]- (9CI) (CA INDEX NAME)



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COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	25.15	208.44
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-3.00	-3.75

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FILE 'MEDLINE' ENTERED AT 14:22:13 ON 20 JAN 2006

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COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	7.21	215.65

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-3.75

STN INTERNATIONAL LOGOFF AT 14:22:36 ON 20 JAN 2006